

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
( Not for submission under 37 CFR 1.99)

Application Number	10597568
Filing Date	2006-07-31
First Named Inventor	Keiichiro OISHI
Art Unit	1742
Examiner Name	Unassigned
Attorney Docket Number	AOYAMA0002

**U.S.PATENTS**

Examiner Initial*	Cite No	Patent Number	Kind Code <sup>1</sup>	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
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1	E.O. HALL, The Deformation and Aging of Mild Steel: III Discussion of Results, The Deformation and Ageing of Mild Steel, 1951, pages 747-753.	<input checked="" type="checkbox"/>
2	N.J. PETCH, The Cleavage Strength of Polycrystals, Journal of the Iron and Steel Institute, 1953, pages 25-28.	<input checked="" type="checkbox"/>
3	M. SADAYAPPAN et al., Fading of Grain Refinement in Leaded Yellow Brass (C85800) and SeBiLOY III (C89550, EnviroBrass III), American Foundry Society, 2001, pages 705-713.	<input checked="" type="checkbox"/>
4	D. COUSINEAU et al., Grain Refinement of Permanent Mold Cast Copper-Base Alloys, American Foundry Society, 2002, pages 505-514.	<input checked="" type="checkbox"/>
5	J.P. THOMSON et al., Evaluation of Grain Refinement of Leaded Yellow Brass (C85800) and EnviroBrass III (C89550) using Thermal Analysis, American Foundry Society, 2003, pages 417-434.	<input checked="" type="checkbox"/>
6	F.A. FASOYINU et al., Effects of Grain Refinement on Hot Tear Resistance and Shrinkage Characteristics of Permanent Mold Cast Yellow Brass (C85800), AFS Transactions, 1998, pages 327-337.	<input checked="" type="checkbox"/>
7	M. SADAYAPPAN et al., Fading of Grain Refinement in Permanent Mold Cast Copper Alloys, American Foundry Society, 2004, pages 521-525.	<input checked="" type="checkbox"/>
8	Dr. W. REIF et al., A New Grain Refiner for Copper-Zinc Alloys containing 25-42% Zinc, Metall 41. Jahrgang, Heft 11, 1987, pages 1131-1137.	<input checked="" type="checkbox"/>
9	M. SADYAPPAN et al., Grain Refinement of Copper Base Alloys, Materials Technology Laboratory (CANMET), 1999, pages 279-291.	<input checked="" type="checkbox"/>
10	M. SADAYAPPAN et al., Grain Refinement of Permanent Mold Cast Silicon Brass, Silicon Bronze and Red Brass, AFS Transactions, 1999, pages 337-342.	<input checked="" type="checkbox"/>
11	A. COUTURE et al., Grain Refinement of Sand Cast Bronzes and its Influence on Their Properties, AFS Cast Metals Research Journal, 1973, pages 1-5.	<input checked="" type="checkbox"/>

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	12	M. SADAYAPPAN et al., Grain Refinement Studies on Lead and Bi/Se Modified Yellow Brasses, Materials Technology Laboratory/CANMET, pages 45-58.	<input checked="" type="checkbox"/>
	13	M. SAHOO, An Overview of ICA-Funded Research and Development at MTL/CANMET, Materials Technology Laboratory, CANMET, pages 1-12.	<input checked="" type="checkbox"/>
INFORMATION STATEMENT (19)	14	FERDYNAND ROMANKIEWICZ et al., Effect of grain refinement by zirconium on the morphology of solidification, the feeding capacity and mechanical properties of brass CuZn30 and silicon brass CuZn15S14, Jahrgang, 1978, pages 25-33.	<input checked="" type="checkbox"/>
	15	R. MANNHEIM et al., Investigation of grain refinement of tin bronzes by zirconium and/or boron and iron as well as of its effect on mechanical properties, Giessereiforschung 40, 1988, pages 1-16.	<input checked="" type="checkbox"/>
	16	O. BUSTOS et al., Study of the combination of cast grain refinement and filtered process on brasses, Rev. Metal Madrid, 1999, pages 222-232.	<input checked="" type="checkbox"/>
	17	Dr. W. REIF, Kornfeinung von Aluminium-, Blei-, Zinn-, Kupfer-und Nickellegierungen-ein Überblick, Giesserei 76, 1989, pages 41-46.	<input checked="" type="checkbox"/>
INFORMATION STATEMENT (19)	18	F. ROMANKIEWICZ et al., Kornfeinung von Kupferlegierungen, Metall, 48. Jahrgang, Nr. 11/94, pages 865-871.	<input checked="" type="checkbox"/>
	19	A. COUTURE et al., Kornfeinung von Kupfer-Sandgußlegierungen und ihr Einfluß auf die Güteeigenschaften, Giesserei-Praxis, 1974, pages 425-435.	<input checked="" type="checkbox"/>

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Examiner Signature		Date Considered	
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Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

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☐ See attached certification statement.

☐ Fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ None

**SIGNATURE**

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Joerg-Uwe Szpl/	Date (YYYY-MM-DD)	2007-06-05
Name/Print	Joerg-Uwe Szpl	Registration Number	31799

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**



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